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APPLICANT : TOYOTA AUTOM LOOM WORKS LTD;

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TITLE : PICKING CONTROLLER IN JET LOOM

ABSTRACT : PURPOSE: To carry out stable picking by respectively and independently controlling jetting pressure of a main nozzle based on sensed information about the weft yarn tip position, jetting timing of auxiliary nozzles based on sensed information about weft yarn arrival time and jetting timing of the auxiliary nozzles corresponding to the predicted arrival position after the lapse of a prescribed time.

CONSTITUTION: Jetting pressure of a main nozzle for picking is controlled based on information about the weft yarn tip position sensed by a sensor and jetting pressure of plural auxiliary nozzles for picking is simultaneously controlled based on information about the arrival time of the weft yarn tip. Furthermore, the arrival position of the weft yarn tip after the lapse of a prescribed time is predicted based on the aforementioned sensed information about the weft yarn tip position and jetting timing of a pressure fluid from the above-mentioned plural auxiliary nozzles for picking corresponding to the aforementioned prediction is simultaneously controlled by independently controlling opening and closing of plural solenoid valves respectively connecting to the above-mentioned plural auxiliary nozzles. Thereby, the optimum operation of the aforementioned main nozzle and auxiliary nozzles is set.

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